

# Annville–Cleona School District

**Course:** Algebra 1B

**Credit Hours:** 1

**Prerequisite:** None

**Instructors:** Mr. James Lamb, Jr. and Mrs. Stephanie Puchalsky

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**Course:** Algebra 1B

**Course Description:** Algebra 1B is a full year course aligned with the common core standards. It covers half of the Algebra 1 curriculum and is only taken by students who have taken Algebra 1A. An emphasis is placed upon connections to other mathematical areas (Geometry, probability, statistics, etc.) as well as other academic disciplines. Applications motivate all topics, which include basic algebraic concepts, linear sentences, graphing on a coordinate plane, polynomials, systems of equations, and functions. The use of calculators facilitates accessibility of mathematical ideas to the student. The course promotes independent thinking and learning.

## Units of Study

- Linear Inequalities
- Systems of Linear Equations and Inequalities
- Polynomials
- Factoring and Quadratic Equations
- Quadratic and Exponential Functions

## A. Instructional Goals

As a result of this course, all students should be able to attain proficiency on the Algebra Keystone Exam and students will be prepared to take the next course in the sequence, Geometry. Students should be able to learn from lecture, cooperative learning, individual problem sets, independent study and self-discovery.

## B. Student Expectations

It is expected that students will:

- Come to class on time with all assignments complete
- Be attentive and engaged in class
- Dedicate an appropriate time amount of time on homework/problem sets/reading/studying each evening

- Utilize all available tools and resources
- Ask questions and seek extra assistance when needed

### **C. Teacher Expectations**

It is expected that the teacher will:

- Be available for help, as schedule allows
- Assign problem sets that adequately reviews the material and meets the learning objectives of the course while adhering to the time expectations for this course.
- Appropriately assess the material taught in class

## **Grading Policies/Procedures**

### **A. Assessment**

Students will be assessed through quick checks (assigned after lessons and problem sets are reviewed), quizzes, tests, and other miscellaneous assignments both in and out of class.

### **B. Grading System**

Per school board policy, the weighting for this class is as follows:

- Tests: 40%
- Quizzes: 30%
- Miscellaneous: 20%
- Lesson Checks: 10%

Each quarter is worth 20% of the overall final average, and the midterm and final are 10% each. Students will also take the Algebra 1 Keystone Exam at the conclusion of the course.

### **C. Absences and Make-Up Work**

All missed work will be made up the day following an absence. Extended absences will be dealt with on a case-by-case basis. Students are expected to check the class wiki and calendar on days of absence to find what was missed. Parents and students are expected to join the class text group to receive text messages of assignments for the following day as well as upcoming assessments. Students will not be allowed to complete make-up work for a grade on days of unexcused or illegal absence, as outlined in the student handbook.

### **D. Late Work**

Students are expected to complete and turn in assignments when they are due, therefore, late work will not be accepted. See **Student Expectations**.

### **Miscellaneous Information**

**Text** – Algebra by Carter, Cuevas, Day, Malloy, and Luchin, The McGraw-Hill Companies, 2010.

**Other Items Required** – Pencil, calculator (TI-84 Plus Silver recommended, any TI-83, TI-84, or TI-nSpire (non-CAS) will work), and a three-ring binder to keep as a notebook. Calculators may not be provided by the school. Students are expected to obtain their own calculator for use through their high school math career.

Students are to keep a tidy notebook of notes, problem sets, quizzes, tests, and other handouts that are provided as they progress through the course. Quick Checks will be given for nearly every lesson. Upon completion of problem sets, students will show understanding of the materials through these. Quizzes will be given to make sure students are further understanding the content, with tests to follow up on that content understanding. Students will also work with others on problem sets and various miscellaneous assignments. The textbook should be read by the student, and all lessons will be viewable by electronic means.

Attendance and participation are both musts! Mathematics is not a spectator sport! Complete and organize all notes and handouts. Definitions and examples are the bulk of the notes, and any handouts must also be kept in an organized binder.

All assignments **must** be completed with a pencil. Any assignment turned in done in pen will suffer a 10% deduction of the original possible score.